Role of Vatatapika Naimittika Rasayana as an Adjuvant Therapy in the Management of Rajayakshma Along with AKT w. s. r to Pulmonary Tuberculosis - A Case Study

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ABSTRACT

Rajayaksma is considered as one among the Astamahagada. It clinically represents a syndrome affecting many srotas. In modern era Rajayakshma which affecting the Prana vaha srotas resembles respiratory dominant pulmonary tuberculosis. It is an major global health problem with increasing morbidity and mortality at an alarming rate especially in the developing countries due to environmental changes, poverty, lack of nutritional diet, overcrowding poor ventilation and lack of awareness about the communicable nature of the disease.

KEYWORDS: Rajayakshma, case report, Eladi gutika, Vyaghriadi kashaya, Pulmonary tuberculosis, AKT

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INTRODUCTION

Tuberculosis is a potential infectious communicable high mortality Diseases. In India Since time immemorial it was a global health emergence in 1993¹.In India prevalance every year 1.8million person develop TB²,of which about 0.8 million are new smear positive high infectious cases. Poor drug compliance, adverse drug reaction and poverty etc. have made failure in current treatment schedule. Inspite of vaccination against Tuberclosis and RNTCP the success rate is not promising. Drug resistant is also one of the major cause for searching alternate solution for tuberculosis

Rajayakshma is studied in detail in ancient India since the vedic period and tuberculosis is the nearest clinical entity for rajayakshma. The maximum impact of rajayakshma in India is on respiratory system and meninges however every structure is affected by it but the present clinical study is more focus on respiratory presentation of rajyakshma. Especially on swasa, kasa, jwara, aruchi, dourbalya, parshwashoola, dhatu kshaya etc ayurveda has categorised in Trirupa, Ekadasha, Shadroopa based on clinical presentation. Invariably kasa, swasa, jwara and weight loss are to be stringently treatment in pulmonary tuberculosis, If agantuja, abhishangja and krimi upsargaja is only targeted in the intervention it is not a complete module. If an augmented anti-inflammatory, respiratory tissue protective approach is undertaken along with DOTS therapy then recovery and prevention of respiratory tissue damage would be better. The group of symptoms is vyadhi, a group of vyadhi is Yakshma and king among the yakshma is

rajyakshma where *anulomana* and *pratilomana* are in types of etiopathogenesis,

Eladi gutika is a polyherbal rasayana with anti tussive, anti-oxidant, anti-viral antibacterial, respiratory rasayana which contain Ela, tvak, patra, pippali, yasthimadhu, draksha kharjura, madhu, sita. Vyaghriadi kashaya a polyherbal kashaya kalpana explained in jwara adhikara and it is effective in symptoms of rajyakshma like jwara, kasa, swasa pinasa the drug having jwara, kasa, swasa hara are effective in pradhana lakshana of pulmonary tuberculosis.

AIMS AND OBJECTIVES- Efficacy of *rasayana* to improve the immunity and to counteract the adverse drug reaction caused by anti-tubercular drug in pulmonary tuberculosis.

CASE REPORT-CHIEF COMPLAINTS-

A 20 Year old patient came with the complaints of Kasa (expectorant in nature), Shwasa, Jwara, Aruchi, Jwara, Weight loss, Pandu

Addiction h/o – smoking, tobacco chewing, alcohol consumption

HISTORY OF PRESENT ILLNESS- Patient was apparently healthy three months back. He developed mild weakness, aruchi mild evening rise of temperature and kasa which was mild in intensity initially, but it continued for more than 4 weeks. Parents had taken for consultation in nearby private clinic and started with cough syrup and antibiotic for a period of one week but got no relief and started with continous bout of kasa especially during night associated with nocturnal fever. Nature of sputum – white colour which is thick and more in quantity. Associated with aruchi and shwasa. Since 20 days the above symptoms aggravated, body weight loss of around 12 kg and not able to do daily activities. again they have shown to nearby hospital and chest x ray was advised- which shows- Ill-defined non homogenous noted in right upper zone with cavities .then the patient has been refered to district hospital RNTCP department for further investigation sputum AFB and CBNAAT .so the patient came here for the same.

HISTORY OF PAST ILNNESS- history of vyadhi karshana-present

History of intake of steroids-present

VAYAKITIKA VRITTANTA (PERSONAL HISTORY)

Ahara - mixed, alpa, ruksha, sheeta, teekshna Rasa pradhana- katu, tikta Sevana karma- vishamashana **Vihara-** Nature of the occupation- job stress – autodriver, Swaroopa- hardworking hours – day time, exposure to sun thermal heat

Involves mental strain- yes

Involves vegavarodha- yes

Exposure to pollutants- yes

Vishrama-less

Sleep- disturbed

Kostha- mridu

Addiction- smoking, gutka chewing and alcohol-duration 2 years, regular

GENERAL EXAMINATION-

Built- lean, Cyanosis-absent, Nourishment- poor, Clubbing- absent, Pallor- mild, Pulse- 76bpm, Respiratory rate- 20 breath/ min, Blood pressure- 110/70 mm hg

ASTHA STHANA PAREEKSHA-

Nadi- Vata kapha 98/min, Mala- vibandha, Mutra- 3-4 times associated with daha Orangaish colour – due to the ATT drug, Jivha- lipta, Sabdha- mandaswara, Sparsha- ruksha, Druk- prakruta, Akruti- krusha

DASHAVIDHA PAREEKSHA-

Prakriti- vata kapha, Satva- madhyama, Sara- avara, Samhanana- avara, Satmya- avara, Ahara shakti- Abhyavarana Shakti- Avara, Jarana Shakti- Avara, Pramana- Height- 152, Weight- 46 Kg, Vyayam shakti- Avara, Vayastha- Bala

SYSTEMIC EXAMINATION-

Trachea- slightly deviated to rt side

Shape of chest-elliptical

Symmetry of the chest- B/ L symmetrical

Respiratory rate- 19 breath/ min

Types of breathing- Abdomino Thoracic

Percussion- resonance

Breath sound-bronchial

Adventitious sound- wheezing(+), supraclavicular, infraclavicular, infra axillary, supra scapular

Investigation-

Hb%- 12.6 gm%

ESR-96 mm/hr

RBS-116mg/dl

Sputum-2+, 3+

CHEST X RAY- Ill defined non homogenous noted in right upper zone with cavities. rest of the lung feild are clear. Hilar shadow- normal, CP angle-free, Impression- Pulmonary Kochs

MATERIAL AND METHOD-

Material type- simple random single case study

Table showing treatment schedule-

Dravya	Dose	Duration	Anupana
Eladi gutika	2vati – TID (1 vati-500mg)	45 days	Usha jala
Vyaghriadi kashaya	15ml-tid	45 days	Ushna jala
ATT	4FDC	45 days	Lukewarm water

Pathya ahara and vihara-

- 1. Ahara- protein rich diet, mamsarasa especially chagamamsa, green leafy vegetables, pomegranate, kharjura, draksha, ghee, nitya abhyanga
- 2. Vihara- rukshannapana, viruddhahara, karvellaka, tambula, hingu, masha, kshara, sahasa janya karma

RESULTS AND DISCUSSION-

Response assessment

Showing changes in the investigation before and after treatment

SUBJECTIVE PARAMETER-

Complaints	Severity		
	BT	AT	
Kasa	*#@		
Swasa	+++-	<u> </u>	
Aruchi	HAP CIENTIFIC A	W.	
Jwara	+++ -	o VX	
Weight loss	ttttoon .	(3) (V)	
Dourbalya	++++4LD	o C V	
Pandu Int	e#national Journa	7	

OBJECTIVE PARAMETER of Trend in Scientific

Test	3/11/21	18/12/21	
Hb%	12.6gm%	14.1gm%	
ESR	112mm/hr _{6/70}	62 mm/hr	
Total count	13, 600cells / cu.mm	11.4cells/ cu.mm	
Sputum AFB	sample A- 2+ Sample B- 3+	Not detected	
Body weight	46kg	48 kg	
HIV	Resistant	Resistant	

No. 12A, BUDA Complex, Mothi Circle, BALLARI - 583101. 🕾 : 08392-277106	e-mail : suryadiagnostics	H HC	ಜಿಲ್ಲಾ ಆಸ್ಪತ್ರೆ ಬಳ್ಳಾರಿ. DISTRICT HOSPITAL, BALLARI. CLINICAL LABORATORY REQUISITION & REPORT FORM
Patient's Name: MR. SHIVARAJ Age: 22 YRS Ref. By: Dr. CHANDRA MOULL.G.MBBS.	Date in Sex in Lab No.	Name :	Age 20 Sex: 6 6 6 Ward/Unit Date: HAEMATOLOGY
HAEMATOLOGICAL TEST HAEMOGLOBIN TOTAL COUNT		HB% Total Count	Results Reference Range ms% M;13-18, F:11-16 Cells/Cumm (4,000-11,000)
DIFFERENTIAL COUNT POLYMORPHS LYMPHOCYTES EOSINOPHILS MONOCYTES PERIPHERAL SMEAR	76 % (50 - 11 % (20 - 77 %) (1 - 4 %) (20 - 77 %) (1 - 4 %) (2 - 4 %) (2 - 4 %) (2 - 4 %) (3 - 4 %) (4	Neutrophils Neutrophils Lymphocytes	
BIO-CHEMICAL TEST RANDOM BLOOD SUGAR (RBS)	102 Mg/dl (70	- 140)Mg/dl PCV/HCT MCV	
SEROLOGICAL TEST WIDAL TEST TO	: Negative Negative	MCH MCHC BT PT	
TH AH BH DENGUE NS1 ANTIGEN DENGUE IgG & IgM	Negative Negative Negative Negative	APTT INR D-Dimer ESR Blood Smear for I	: sec (30-40sec) : microg/ml (0-0.5microg/ml) : mm (0-20)
URINE TEST ALBUMIN SUGAR MICROSCOPY	Absent Nil 2-3 Pus cells are seen/hpf	Post Prandial Block Random Blood Su	BIO-CHEMISTRY ng/dl

Probable mode of action of dravvas used for chikitsa-

Drugs	Action	
Trijataka	Deepana, pachana, ruchikara	
Shunthi	Deepana, Ruchiprada, Vatakaphahara, Katu, Agni Deepana	
Yasthimadhu	Vata Pitta Hara, Bala Varna Krita, Shukrala, Swarya, Trishna, Glani Kshaya Hara	
Pippali	Deepani, Vrishya, Rasayani, Rechani, Shwasa, Kasa, Udara, Jwarahara	
Draksha	Trishna, Daha, Jeara, Shwasa, Kasa, Kshata, Kshaya, Swarabheda Kasahara,	
	Bhruhmana, Vrishya	
Kharjura	Ruchikara, Hridya, Tarpana, Kshatakshaya Hara, Guru, Tarpana, Rakta Pitta	
	Ghana, Tusthi Pusthi Shukrala, Kasa, Shwasa Hara, Deepana	
Sita	Kasa, Shwasa, Hikka, Kustha Vrana Hara, Chakshushya	
Madhu	Agni Deepana, Varnyam, Hrudya Shodhanam, Ropanam, Sookshma Marganusari,	
	Visha Prashaman, Shwasa Kasa Hara	
Vyaghri	Shwasa jita, aruchi hara, jvarahara, vata hara, amadosha hara, bala pusthi kara	
Amrita	Tridoshaghna, jwara hara, agni deepana, kasa hara, shwasa hara, pandu hara	
Shunthi	Rochaka, deepaka, vrishya,	

From the above description it appears that the drug interferes in breaking the pathogenesis of rajayakshma. Drugs like trijataka, pippali acts as ama pachana, deepana pachana and helps in srotoavrodhahara which is the first stage of samprapti.

Kasa- in kasa samprapti the normal vayu attained the pratiloma gati due to srotorodha mixes with the kapha leading to bahuroopa kasa. Vyaghriadhi kshaya with katu ushna, teekshna laghu, ruksha gunas chedana srotoshodhana thereby dosha paka especially of sama kapha. eladi gutika helps in the vrana ropana might have initiated the cavity healing and hence relieved kasa.

Shwasa- in rajakashma srotorodha leading to the accumulation of amai.e kapha sthana vata vriddhi. Obstruction leading to the narrowing of airways ad henced shwasa.also the rakta dhatu kshaya leads to less oxyhemoglobin and decrease transport of oxygen to the tissues from the lung. Vyaghriadhi kashaya due to katu, tikta rasa, ushna guna lead to agni deepana, abhishynda hara, srotoshodhaka. Eladi gutika also helps in the hemopoietic system and provides nutrition to the tissues ad also improve oxyhemoglobin.

Aruchi- dosha prakopa especially sama kapha leads to aruchi and agnimandya at the level of jatharagni, dhatwagni woing to the amotpatti and rasa vaha srotodusthi in turn cause aruchi.as the kashaya contains pippali, shunthi does the ama pachana, deepama and stimulate the tounge receptors thereby correcting the jatharagni owing to the amapachana in kostha and increase the agni. Eladi gutika mainly havig rochaka action which clarifies the kashaya and tikta rasa ogf jiwha.

Jwara- jwara can be understoos as a condition due to the involvement of rasa vaha sroto dusthi due to the

displacement of agni, due to decreased immunity. this makes the patient more susceptible for infection. Vyaghriadi kashaya is basically from jwara chikitsa does the srotoshodhana, jwara hara, sweda janana and thereby help in controlling the fever eladi gutika is sheeta bhruhmana and it helps in improve immunity.

Pandu- due to the obstruction in rasa vaha sroto dusthi and apachaya of dhatu ushma rakta dhatu will not get proper nourishment and destruction of poshya rasa dhatu takes place. Due to this the patient develops pandu. Drugs in the vyaghriadi kashaya having ushna, katu teekshna guna helps in resolving sanga in rasavaha srotas. Eladi gutika helps for the formation and vyuhana of rakta poshaka sara bhaga to the destination of rakta dhatu and also does the bhruhmna and tarpana actiob which helps in releiving pandu.

Dourbalya and weight loss - Dourbalya in rajayakshma is mainly due to ojokshaya and chronicity of the roga. Srotorodha leading to dhatu kshaya and chronicity of the roga leads to vata vruddhi and dourbalya.vyaghriadi kashya mainly srotorodha hara .it does mild langhana prior to bhruhmana. In eladi gutika – draksha contain basic elements like manganese, vit B6, thiamine, riboflavin, vit c. arginine leads to the circulation and oxygen supply of the vessels through the release of NO which relaxes the wall of vessels. Alanine, non-essential amino acid found in the draksha are the building block of protein which helps in building strong and healthy muscle protein. kharjura anti-inflammatory reducing esr markes and normalizing the plasma level of anti-oxidants produce significant incrase in the body weight.

Conclusion- In the patient of rajayakshma there was marked improvement in both the subjective and

objective parameter. No unwanted effect of the therapy was observed during treatment and during follow up period. So it can be concluded that adjuvant therapy along with ATT are very effective in the management of rajayakshma (pulmonary tuberculosis) and reduces the adverse effect of ATT drugs.

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